

WHAT IS CLAIMED IS:

1. A rotor of a dynamo-electric machine, said rotor comprising:

a rotor coil which includes a bobbin having a first flange and a second flange opposed to each other and a conductor wound around said bobbin, and through which current flows to generate magnetic flux;

a field core assembly which is provided such that it covers said rotor coil and which is composed of a first field core member and a second field core member respectively having triangular magnetic poles alternately meshed with each other; and

a plurality of magnetic portions which are provided between adjacent ones of said triangular magnetic poles in an orientation that reduces the leakage of magnetic flux between said triangular magnetic poles, and are joined to at least one of said first flange and said second flange.

2. A rotor of a dynamo-electric machine according to Claim 1, wherein the magnetic portions are constituted by magnetic members made of a magnetic material and covers which cover the magnetic members and which are made of the same resin material as that of the bobbin.

3. A rotor of a dynamo-electric machine according to Claim 1, wherein fitting portions which are fitted on the sides of the triangular magnetic poles to prevent the magnetic portions from shifting radially outward are formed on the sides of the magnetic portions.

4. A rotor of a dynamo-electric machine according to any one of Claim 1, wherein engaging portions which engage with ends of the triangular magnetic poles to prevent the magnetic portions from shifting axially are formed on the ends of the magnetic portions.

5. A rotor of a dynamo-electric machine according to any one of Claim 1, wherein locking portions which engage with mating portions formed on the distal ends of the magnetic portions to retain the magnetic portions between the triangular magnetic poles are formed on the outer periphery of either the first flange or the second flange.

6. A method of manufacturing a rotor of a dynamo-electric machine, said rotor comprising:

a rotor coil which includes a bobbin having a first flange and a second flange opposed to each other and a conductor wound around said bobbin, and through which current flows to generate magnetic flux;

a field core assembly which is provided such that it covers said rotor coil and is composed of a first field core member and a second field core member respectively having triangular magnetic poles alternately meshed with each other; and

magnetic portions which are provided between adjacent ones of said triangular magnetic poles in an orientation that reduces the leakage of magnetic flux between said triangular magnetic poles, which are joined to at least one of said first flange and said second flange, and which are constituted by magnetic members made of a magnetic material and covers which cover the magnetic members and are made of the same resin

material as that of the bobbin;

wherein said magnetic members are placed in a mold and resin is injection molded to form said bobbin and said magnetic portions integral with said bobbin.

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